



State of Utah

JON M. HUNTSMAN, JR.
Governor

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Lieutenant Governor

Department of Environmental Quality

William J. Sinclair
Acting Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

DAQE-IN0122420006-09

February 26, 2009

Kami Marriott
Marriott Rock Products
5238 W. 2150 N.
Ogden, UT 84404

Dear Ms. Marriott:

Re: Intent to Approve: Approval Order Modification to Consolidate Approval Orders, Replace Equipment and Increase Production; Box Elder County; CDS B; NSPS (Part 60), NSR
Project Number: N012242-0006

The attached document is the Intent to Approve for the above-referenced project. The Intent to Approve is subject to public review. Any comments received shall be considered before an Approval Order is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an Approval Order. An invoice will follow upon issuance of the final Approval Order.

Future correspondence on this Intent to Approve should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. The project engineer for this action is Maung Maung, who may be reached at (801) 536-4153.

Sincerely,

Ty L. Howard, Manager
New Source Review Section

TLH:MM:sa

cc: Bear River Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

**INTENT TO APPROVE: Approval Order Modification to
Consolidate Approval Orders, Replace Equipment
and Increase Production**

**Prepared By: Maung Maung, Engineer
Phone: (801) 536-4153
Email: mmaung@utah.gov**

INTENT TO APPROVE NUMBER

DAQE-IN0122420006-09

Date: February 26, 2009

Aggregate Processing

**Source Contact:
Ms. Kami Marriott
Administrator
Phone: (801) 731-7252**

**Ty L. Howard, Manager
New Source Review Section
Utah Division of Air Quality**

ABSTRACT

Marriott Rock Products has requested a modification to its AO DAQE-105-02 to increase aggregate production. It recently purchased Gordon C. Orton Construction Inc. which is an operation adjacent to Marriott's site. Gordon C. Orton Construction Inc. operates under an AO DAQE-808-01. Marriott Rock Products has requested to increase its annual production of aggregate to 1,300,000 tons per year and combine AO DAQE-105-02 and AO DAQE-808-01 into one AO. The company is located in Weber and Box Elder counties. Both counties are attainment areas for all pollutants. NSPS, Part 60, subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants applies to this source. Therefore, Title V applies to this source. NESHAP and MACT regulations do not apply to this source. The emissions, in tons per year, will change as follows: $PM_{10} = +4.60$, $SO_2 = -2.51$, $NO_x = +6.09$, $CO = +4.63$, $VOC = +1.57$. The changes in emissions will result in the following, in tons per year, potential to emit totals: $PM_{10} = 11.74$, $SO_2 = 2.51$, $NO_x = 26.03$, $CO = 9.57$, $VOC = 2.63$.

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Executive Secretary of the Utah Air Quality Board.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in the Box Elder News & Journal on March 4, 2009. During the public comment period the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

Name of Permittee:

Marriott Rock Products
5238 W. 2150 N.
Ogden, UT 84404

Permitted Location:

Gordon C. Orton Construction Co. Inc.:
Aggregate Processing
9205 South Hwy 89
Willard, UT 84340

UTM coordinates: 413,886 m Easting, 4,576,853 m Northing

SIC code: 1442 (Construction Sand & Gravel)

Section I: GENERAL PROVISIONS

- I.1 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
- I.2 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
- I.3 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]

- I.4 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401]
- I.5 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]
- I.6 The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring. [R307-150]
- I.7 The owner/operator shall comply with UAC R307-107. General Requirements: Unavoidable Breakdowns. [R307-107]

Section II: SPECIAL PROVISIONS

II.A The approved installations shall consist of the following equipment:

- II.A.1 **Willard Rocky Point Pit**
Aggregate Plant
- II.A.2 **Conveyors and stackers**
Miscellaneous conveyors and stackers for aggregates
- II.A.3 **Jaw crusher #1**
Manufactured by Cedarapids, model number 36x60 rated at 800 tons per hour
- II.A.4 **Jaw crusher #2**
Manufactured by Kolberg Pioneer, model number CS3055 rated at 500 tons per hour
- II.A.5 **Cone crusher #1**
Manufactured by JCI, model number K300 rated at 300 tons per hour
- II.A.6 **Cone crusher #2**
Manufactured by Cedarapids, model number 450 rated at 500 tons per hour
- II.A.7 **Cone crusher #3**
Manufactured by JCI, model number Kodiak 400 rated at 500 Tons per hour
- II.A.8 **Miscellaneous equipment**
Front end loaders, Trackhoes and Dozers

- II.A.9 **Screen #1**
Manufactured by JCI, model number 6203
- II.A.10 **Screen #2**
Manufactured by JCI, model number 6203
- II.A.11 **Screen #3**
Manufactured by Cedarapids, model number unknown
- II.A.12 **Fuel storage tanks**
Miscellaneous diesel fuel storage tanks

II.B Requirements and Limitations

II.B.1 Requirements and Production Limitation

- II.B.1.a Control of disturbed or stripped areas shall be required at all times for the duration of the project/operation per R307-205. [R307-205]
- II.B.1.b Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations to be made at 15 second intervals over a six minute period, however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Executive Secretary or the Executive Secretary's representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made ½ vehicle length or greater behind the vehicle and at approximately ½ the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value. [R307-401]
- II.B.1.c Marriott Rock Products shall notify the Executive Secretary in writing when the installation of the equipment listed in Condition #8E has been completed and is operational. To insure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If installation has not been completed within 18 months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the installation. At that time, the Executive Secretary shall require documentation of the continuous installation of the operation and may revoke the AO. [R307-401-11]
- II.B.1.d Visible emissions from the following emission points shall not exceed the following values:
 - 1. All crushers - 15% opacity
 - 2. All screens - 10% opacity
 - 3. All conveyor transfer points - 10% opacity

4. All diesel engines - 20% opacity
5. Conveyor drop points - 20% opacity
6. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

For units that are subject to NSPS opacity shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9. [R307-201]

II.B.1.e The owner/operator shall use only #1 or #2 diesel as fuel. [R307-401]

II.B.1.f The following production limit shall not be exceeded:

1. 1,300,000 tons of aggregate processed per rolling 12-month period

Compliance with the limitation shall be determined on a rolling 12-month total. The owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Records of production, including rolling 12-month totals, shall be made available to the Executive Secretary or Executive Secretary's representative upon request and the records shall include the two-year period prior to the date of the request. Production shall be determined by operator records. The records of production shall be kept on a daily basis. [R307-401]

II.B.1.g The company shall abide by a fugitive dust control plan acceptable to the Executive Secretary for control of all dust sources associated with its operations. This plan shall contain sufficient controls to prevent an increase in PM₁₀ emissions above those estimated for this AO. [R307-401]

II.B.1.h All unpaved roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed and/or chemically treated to control fugitive dust. Treatment shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition unless it is below freezing. The opacity shall not exceed 20% during all times the areas are in use. If chemical treatment is to be used, the plan must be approved by the Executive Secretary. Records of water and/or chemical treatment shall be kept for all periods when the plant is in operation. The records shall include the following items:

1. Date
2. Number of treatments made, dilution ratio, and quantity
3. Rainfall received, if any, and approximate amount

4. Time of day treatments were made

5. Records of temperature if the temperature is below freezing. [R307-205]

II.B.1.i The haul road shall not exceed 0.7 miles in length and the vehicle speed along the haul road shall not exceed 15 miles per hour. The vehicle speed on the haul road shall be posted, at a minimum, on site at the beginning of the haul road so that it is clearly visible from the haul road. [R307-401]

II.B.1.j Water sprays or chemical dust suppression sprays shall be installed at the following points to control fugitive emissions:

1. All crushers

2. All screens

3. All conveyor transfer points

The sprays shall operate whenever dry conditions warrant or as determined necessary by the Executive Secretary. [R307-201]

II.B.1.k The storage piles shall be watered to minimize generation of fugitive dusts as dry conditions warrant or as determined necessary by the Executive Secretary. [R307-201]

II.B.2 **Federal Requirements**

II.B.2.a In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, NSPS Subpart A, 40 CFR 60.1 to 60.18 and Subpart OOO, 40 CFR 60.670 to 60.676 (Standards of Performance for Nonmetallic Mineral Processing Plants) apply to this installation. A copy of the latest 40 CFR 60 Subparts A (section 60.8) and OOO, dated July 1, 1993, is attached to this document as Appendix A. However, to be in compliance, this facility must operate in accordance with the most current version of 40 CFR 60 applicable to this source. [40 CFR 60 Subpart OOO]

Section III: APPLICABLE FEDERAL REQUIREMENTS

In addition to the requirements of this AO, all applicable provisions of the following federal programs have been found to apply to this installation. This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including UAC R307.

NSPS (Part 60), OOO: Nonmetallic Mineral Processing Plants

PERMIT HISTORY

The final AO will be based on the following documents:

Is Derived From	Additional information submitted dated February 17, 2009
Is Derived From	Additional information submitted on dated January 15, 2009
Is Derived From	NOI submitted on dated June 17, 2008
Is Derived From	DAQE-105-02 dated February 14, 2002
Supersedes	DAQE-808-01 dated September 21, 2001

ACRONYMS

The following lists commonly used acronyms and their associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
ATT	Attainment Area
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	Carbon monoxide
COM	Continuous opacity monitor
DAQ	Division of Air Quality (typically interchangeable with UDAQ)
DAQE	This is a document tracking code for internal UDAQ use
EPA	Environmental Protection Agency
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
MACT	Maximum Achievable Control Technology
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO _x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM ₁₀	Particulate matter less than 10 microns in size
PM _{2.5}	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO ₂	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds